982058

From: Marc Ferries

Sent: Monday, March 13, 2023 4:35 PM **To:** Dollhopf, Ralph; Kelly, Jack (R3 Phila.)

Cc: Garypie, Catherine; Cahn, Jeffrey; Dixit, Naeha; Clark, Jacqueline (she/her/hers); Eiseman, Robin;

david.schoendorfer@nscorp.com; Veira, E. Fitzgerald; Matthew.Gernand;

Peggy.Otum@wilmerhale.com; hollister.hill@nscorp.com; geoffrey.rathgeber@nscorp.com;

robert.wood2_nscorp.com; Aufdenkampe, Steven R.; R5_OPS; R5_PSC; R5_ENVL; R5_SITL; R5_DATA;

R5 DOCL

Subject: East Palestine Train Derailment Site - Directive #2 Data Inventory Deliverable

Attachments: Data Element Table.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Ralph, Jack, and Ann:

The United States Environmental Protection Agency's Site Directive #2 dated March 12, 2023 (the "Directive") requires Norfolk Southern Railway Company ("Norfolk Southern") to submit a Data Inventory within one calendar day of the Directive, which is March 13, 2023. In accordance with the Directive, please find the Data Inventory attached.

Regards, Marc

Marc Ferries, P.E. | Project Coordinator, East Palestine - Train Derailment Site

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Data Element	What organization collected the information?	Is an electronic form of that information currently available? If so, provide brief description of data storage system and data format. If not, explain.	Can the information be provided in a web-based data service and made immediately available to EPA? If not, explain.	Contact information for the NSR representative and the contractor representative capable of coordinating data sharing.	Will the format or system for data management of this information change as NSR rolls out longer-term solutions (for example, uploading to the R5 Environmental Quality Information System ("EQuIS")? If so, describe the change to take place and the anticipated timing for that change.
Air monitoring locations, stationary	СТЕН	Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. This data is also available on the CTEH project website. Custom formats can be produced but may require further planning.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.
Air monitoring data, stationary	СТЕН	Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of daily summaries are currently available on the NS SharePoint site.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. This data is also available on the CTEH project website. Custom formats can be produced but may require further planning.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.

Air monitoring	СТЕН	Data is stored in a	Yes. The data can	Eric Callahan	The final format will be outlined in the
locations, roving		PostgreSQL	be provided as an	ecallahan@cteh.com	approved data management plan.
, ,		database with a	ESRI REST service	501-366-1525	
		CTEH specific	for consumption by		
		schema. It can be	ArcGIS online, etc.		
		exported to the	PDF copies of lab		
		format outlined in	reports and daily		
		the final data	summaries are		
		management plan.	currently available		
			on the NS		
			SharePoint site.		
			This data is also		
			available on the		
			CTEH project		
			website.		
			Custom formats		
			can be produced		
			but may require		
			further planning.		
Air monitoring	СТЕН	Data is stored in a	Yes. The data can	Eric Callahan	The final format will be outlined in the
data, roving		PostgreSQL	be provided as an	ecallahan@cteh.com	approved data management plan.
		database with a	ESRI REST service	501-366-1525	
		CTEH specific	for consumption by		
		schema. It can be	ArcGIS online, etc.		
		exported to the	PDF copies of lab		
		format outlined in	reports and daily		
		the final data	summaries are		
		management plan.	currently available		
			on the NS		
			SharePoint site.		
			This data is also		
			available on the		
			CTEH project website.		
			Custom formats		
			can be produced		
			but may require		
			further planning.		

Air sampling,	CTEH	Data is stored in a	Yes. The data can	Eric Callahan	The final format will be outlined in the
locations		PostgreSQL	be provided as an	ecallahan@cteh.com	approved data management plan.
		database with a	ESRI REST service	501-366-1525	
		CTEH specific	for consumption by		
		schema. It can be	ArcGIS online, etc.		
		exported to the	Custom formats		
		format outlined in	can be produced		
		the final data	but may require		
		management plan.	further planning.		
		PDF copies of	This data is also		
		locations and daily	available on the		
		summaries are	CTEH project		
		currently available	website.		
		on the NS			
		SharePoint site.			
Air sampling, data	CTEH / Pace	Data is stored in a	Yes. The data can	Eric Callahan	The final format will be outlined in the
1 0,		PostgreSQL	be provided as an	ecallahan@cteh.com	approved data management plan.
		database with a	ESRI REST service	501-366-1525	
		CTEH specific	for consumption by		
		schema. It can be	ArcGIS online, etc.		
		exported to the	This data is also		
		format outlined in	available on the		
		the final data	CTEH project		
		management plan.	website.		
		PDF copies of lab	Custom formats		
		reports and daily	can be produced		
		summaries are	but may require		
		currently available	further planning.		
		on the NS			
		SharePoint site.			

In-home Air Assessments, locations	СТЕН	Data is stored in a PostgreSQL database with a	Yes. The data can be provided as an ESRI REST service	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.
		CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of inspection reports are currently available on the NS	for consumption by ArcGIS online, etc. This data is also available on the CTEH project website.		
In-home Air Assessment, data	CTEH	SharePoint site. Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of inspection reports are currently available on the NS SharePoint site.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. This data is also available on the CTEH project website.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.
In-home Air Assessment call- logs and notes.	CTEH	Data is stored in an internally developed call intake and ticketing application and database.	Data can be accessed through the web by CSV or Excel download. An API is also available for programmatic data access.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.

Surface water sample, locations	СТЕН	Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of daily summaries are currently available on the NS SharePoint site.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. This data is also available on the CTEH project website.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.
Surface water sample, data	CTEH / Pace	Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of lab reports and daily summaries are currently available on the NS SharePoint site. This data is also available on the CTEH project website.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.

Potable well sample locations with associated well boring data and field sampling information	AECOM / Stantec Field forms Arcadis well boring data	Potable well field sampling forms and well boring logs (pdf) are available on Stantec NS SharePoint. Locations (static shared) and shapefile in works (KG)	This information can be provided as a pdf on a SharePoint site. Recently generated data with geospatial reference can be provided in ESRI Web service.	Tom Cole, Stantec Thomas.Cole@Stante c.com 517-712-7969	The final format will be outlined in the final data management plan.
Potable well sample, sample analysis data	Stantec / Eurofins	Laboratory Final Data Packages are uploaded to the Norfolk Southern SharePoint Site, as well as the Stantec NS SharePoint Site. Validated Laboratory EDDs are available on the Stantec NS SharePoint Site and have been uploaded into the Stantec EQuiS database currently housing validated laboratory results (both AECOM and Stantec).	Validated Potable well analytical data is available from Stantec's EQuIS database. PDF versions of the Final Laboratory Data Package are available on both NS and Stantec NS SharePoint AECOM validated data was transferred into an EQUIS database and the final laboratory data packages are on the NS SharePoint and the Stantec NS SharePoint.	Brigid Zvirbulis, Stantec Brigid.zvirbulis@stan tec.com 248-522- 8304 for fixed laboratory data Carole Lieu, Stantec Carole.Lieu@stantec. com 226-929-7875 for EQuiS database information	The final format will be outlined in the final data management plan.

All other well	Stantec	Laboratory Final	Validated Potable	Michael Hutchinson,	The final format will be outlined in the
locations NSR is		Data Packages are	well analytical data	Stantec	final data management plan.
managing data for,		uploaded to the	is available from	Michael.hutchinson	
including but not		Norfolk Southern	Stantec's EQuIS	@stantec.com	
limited to: (1)		SharePoint Site, as	database.	770-846-8716	
existing and		well as the Stantec			
proposed		NS SharePoint Site.	PDF versions of the	Brigid Zvirbulis	
monitoring wells;		Validated	Final Laboratory	Stantec,	
(2) sentinel		Laboratory EDDs	Data Package are	Brigid.zvirbulis@stan	
monitoring wells;		are available on the	available on both	tec.com 248-522-	
and (3) municipal		Stantec NS	NS and Stantec NS	8304	
groundwater wells		SharePoint Site and	SharePoint	for fixed laboratory	
		have been		data	
		uploaded into the			
		Stantec EQuiS			
		database currently		Carole Lieu,	
		housing validated		Stantec	
		laboratory results		Carole.Lieu@stantec.	
		(both AECOM and		com	
		Stantec).		226-929-7875	
				for EQuiS database	
		Stantec		information	
		Could share figures			
		(pdf) of proposed		Tom Cole, Stantec	
		SMW locations,		Thomas.Cole@Stante	
		well construction		c.com 517-712-7969	
		logs, development			
		logs, purge logs;			
		shapefile for			
		municipal/sentinel;			
		waiting on			
		shapefile for			
		private; pdf			
		sampling logs for			
		municipal wells.			

All other well locations NSR is managing data for, including but not limited to: (1) existing and proposed monitoring wells;	ARCADIS	Yes, NS data portal for work plans and associated maps and ArcGIS Pro (internal to Arcadis)	Feature service (line, point, and polygon) can be provided through AGO online for Arcadis online web maps	Dennis Capria Dennis.capria@arcad is.com 315-751-1672 Carolyn Grogan Carolyn.grogan@arca dis.com 614-271-6586	The final format will be outlined in the final data management plan.
Sampling and analysis data from all other well locations	ARCADIS / Eurofins	Yes, tablet data collection and EQuIS database for analytical data (internal to Arcadis)	No – QA/QC required prior to publishing on NS data portal	Dennis Capria Dennis.capria@arcad is.com 315-751-1672 Carolyn Grogan Carolyn.grogan@arca dis.com 614-271-6586	The final format will be outlined in the final data management plan.
Surface water monitoring, locations	СТЕН	Data is stored in a PostgreSQL database with a CTEH specific schema. It can be exported to the format outlined in the final data management plan. PDF copies of daily summaries are currently available on the NS SharePoint site.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. This data is also available on the CTEH project website.	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.

Surface water	СТЕН	Data is stored in a	Yes. The data can	Eric Callahan	The final format will be outlined in the
monitoring, data		PostgreSQL	be provided as an	ecallahan@cteh.com	approved data management plan.
		database with a	ESRI REST service	501-366-1525	
		CTEH specific	for consumption by		
		schema. It can be	ArcGIS online, etc.		
		exported to the	This data is also		
		format outlined in	available on the		
		the final data	CTEH project		
		management plan.	website.		
		PDF copies of lab			
		reports and daily			
		summaries are			
		currently available			
		on the NS			
		SharePoint site.			
Sediment Sampling,	ARCADIS	Yes, NS data portal	Feature service	Dennis Capria	The final format will be outlined in the
locations		for work plans and	(line, point, and	Dennis.capria@arcad	final data management plan.
		associated maps	polygon) can be	<u>is.com</u>	
		and ArcGIS Pro	provided through	315-751-1672	
		(internal to	AGO online for	Carolyn Grogan	
		Arcadis)	Arcadis online web	Carolyn.grogan@arca	
			maps	dis.com	
Carlton of Carrellon	ABCABIC	V	N - 04/00	614-271-6586	The Cool Course Hills on the old to the
Sediment Sampling,	ARCADIS	Yes, EQuIS database for	No – QA/QC	Dennis Capria	The final format will be outlined in the
data			required prior to	Dennis.capria@arcad	final data management plan.
		analytical data	publishing on NS	is.com 315-751-1672	
		(internal to	data portal		
		Arcadis)		Carolyn Grogan Carolyn.grogan@arca	
				dis.com	
				614-271-6586	
				014-2/1-0380	

All other	ARCADIS	Yes, NS data portal	ArcGIS Pro (internal	Arcadis – Carolyn	The final format will be outlined in the
georeferenced		for work plans and	to Arcadis).	Grogan and Dennis	final data management plan.
features NSR has		associated maps	Feature service	Capria	
collected or			(line, point, and		
managed as part of			polygon) can be		
the response. This			provided through		
includes but is not			AGO online for		
limited to: (1) point			Arcadis online web		
/ line / area			maps.		
features depicting					
operational areas of					
interest; (2)					
excavational areas;					
(3) personnel and					
equipment staging					
areas; (4) waste					
staging and transfer					
areas; (5) drainage					
and surface water					
features, including					
dams and					
underflow dams; (5)					
hard and soft boom					
areas; (6) material					
product recovery					
areas (7) surface					
water sparging and					
(8) any other					
mitigation or					
engineering control					
location not already					
covered					
Unmanned Aerial	ARCADIS	Yes, available via	Yes, already	Arcadis – Carolyn	The final format will be outlined in the
Systems (UAS)		the USEPA	implemented	Grogan and Dennis	final data management plan.
collected data		SharePoint		Capria	0

Phase I –	ARCADIS	Yes, NS data portal	Feature service	Arcadis – Carolyn	The final format will be outlined in the
Residential,		for work plans and	(line, point, and	Grogan and Dennis	final data management plan.
Commercial,		associated maps	polygon) can be	Capria	
Agricultural Soil		and ArcGIS Pro	provided through		
Sampling Workplan,		(internal to	AGO online for		
locations		Arcadis)	Arcadis online web		
			maps		
Phase I –	ARCADIS /	Yes, NS data portal	No – QA/QC	Arcadis – Carolyn	The final format will be outlined in the
Residential,	Eurofins	for inspection	required prior to	Grogan and Dennis	final data management plan.
Commercial,		reports, plans and	publishing on NS	Capria	
Agricultural Soil		associated maps.	data portal. Yes,		
Sampling Workplan,		Laboratory reports	EQuIS database for		
data		will also be	analytical data		
		available on	(internal to		
		SharePoint as they	Arcadis)		
		come in.			
Confirmation Soil	ARCADIS	Yes, NS data portal	ArcGIS Pro (internal	Arcadis – Carolyn	The final format will be outlined in the
Sampling, locations		for work plans and	to Arcadis).	Grogan and Dennis	final data management plan.
		associated maps.	Feature service	Capria	
			(line, point, and		
			polygon) can be		
			provided through		
			AGO online for		
			Arcadis online web		
			maps.		
Confirmation Soil	ARCADIS /	Yes, NS data portal	Yes, EQuIS	Arcadis – Carolyn	The final format will be outlined in the
Sampling, data	Eurofins	for work plans and	database for	Grogan and Dennis	final data management plan.
Jamping, data	Laronnis	associated maps.	analytical data	Capria	illiai uata ilialiageillelit piali.
		PDF Laboratory	(internal to	Capita	
		reports are	Arcadis)		
		available on the NS	No – QA/QC		
		SharePoint.	required prior to		
		Sharer offic.	publishing on NS		
			data portal		
			uata portar		

Site Photos	СТЕН	Not currently.	Yes. The data can be provided as an ESRI REST service for consumption by ArcGIS online, etc. Photos for air monitoring, sampling, and site observations are stored in a file server file system. Meta data such as descriptions and coordinates are stored in a PostgreSQL database with a CTEH specific	Eric Callahan ecallahan@cteh.com 501-366-1525	The final format will be outlined in the approved data management plan.
Site photos	Stantec / AECOM	Not currently.	Photos are geo referenced and/or labeled with	Tom Cole, Stantec Thomas.Cole@Stante c.com 517-712-7969	The final format will be outlined in the final data management plan.
All metadata for all geodata	CTEH / Arcadis / Stantec	Dependent on corresponding data.	Iocation IDs. TBD	NA	
Any fate and transport or groundwater flow models	NA				
Any other georeferenced data NS is managing for the response	TBD				